

# INTERNATIONAL SEARCH REPORT

International Application No

PC/EP2004/009964

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F01D11/00 F16J15/08

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F01D F16J F23R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 118 806 A (SIEMENS AG) 25 July 2001 (2001-07-25) paragraph '0021! - paragraph '0025!	1-11
Y	EP 1 323 891 A (GEN ELECTRIC) 2 July 2003 (2003-07-02) paragraph '0014! - paragraph '0016! figures 5,7,8	1-11
A	US 6 464 232 B1 (MARCHI MARC ROGER ET AL) 15 October 2002 (2002-10-15) column 2, line 51 - column 3, line 10	1-11
A	US 5 049 032 A (BRANDON RONALD E) 17 September 1991 (1991-09-17) column 3, line 21 - line 28 figure 5	1-11
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

25 January 2005

Date of mailing of the international search report

25/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Steinhauser, U

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 300 868 A (WILKINSON WILFRED H ET AL) 17 November 1981 (1981-11-17) column 5, line 22 - line 30 figure 8	1-11
A	US 1 073 916 A (LJUNSTRÖM) 23 September 1913 (1913-09-23) the whole document	1-11
A	US 5 221 096 A (HELDRETH MARK A ET AL) 22 June 1993 (1993-06-22) figure 6	1-11

# INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/EP2004/009964

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1118806	A	25-07-2001	EP 1118806 A1	25-07-2001
			CN 1394263 T	29-01-2003
			DE 50100521 D1	25-09-2003
			WO 0153729 A1	26-07-2001
			EP 1248924 A1	16-10-2002
			JP 2004500513 T	08-01-2004
			US 2003047878 A1	13-03-2003
EP 1323891	A	02-07-2003	US 2003122320 A1	03-07-2003
			EP 1323891 A2	02-07-2003
			JP 2003227352 A	15-08-2003
US 6464232	B1	15-10-2002	FR 2786222 A1	26-05-2000
			CA 2289813 A1	19-05-2000
			DE 69910951 D1	09-10-2003
			DE 69910951 T2	15-07-2004
			EP 1002972 A1	24-05-2000
			JP 2000161008 A	13-06-2000
US 5049032	A	17-09-1991	NONE	
US 4300868	A	17-11-1981	GB 2037901 A , B	16-07-1980
			DE 2947292 A1	29-05-1980
			FR 2442334 A1	20-06-1980
			IT 1124958 B	14-05-1986
			JP 1359499 C	30-01-1987
			JP 55075507 A	06-06-1980
			JP 61025883 B	18-06-1986
US 1073916	A		NONE	
US 5221096	A	22-06-1993	NONE	